

Figure 1

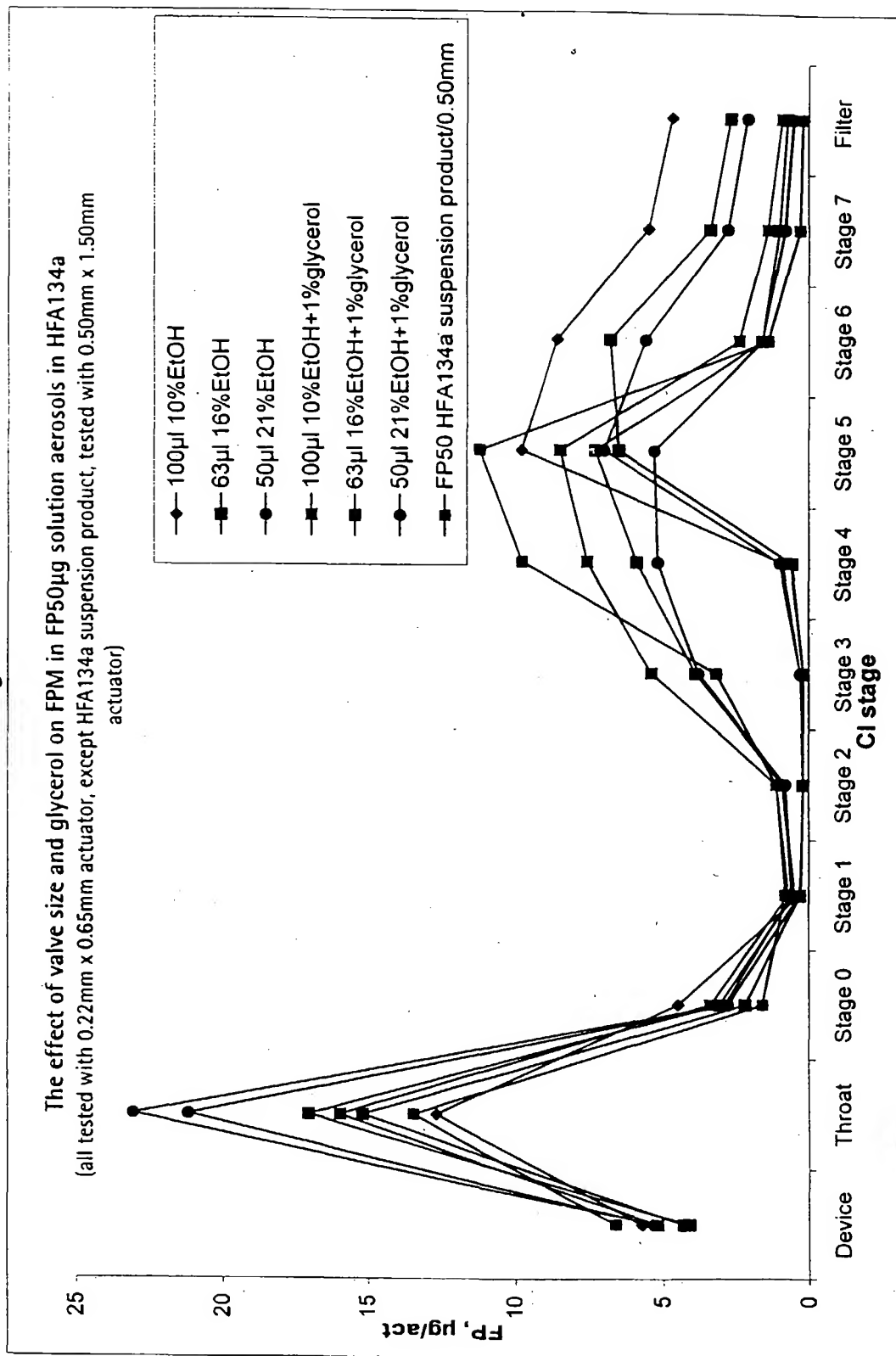


Figure 2

The effect of level of Ethanol on FPM in various FP/HFA134a solution aerosol formulation
with no addition of glycerol (various valve sizes),
(0.22mm x 0.65mm actuator, except HFA134a suspension product, tested with 0.50mm x 1.50mm actuator)

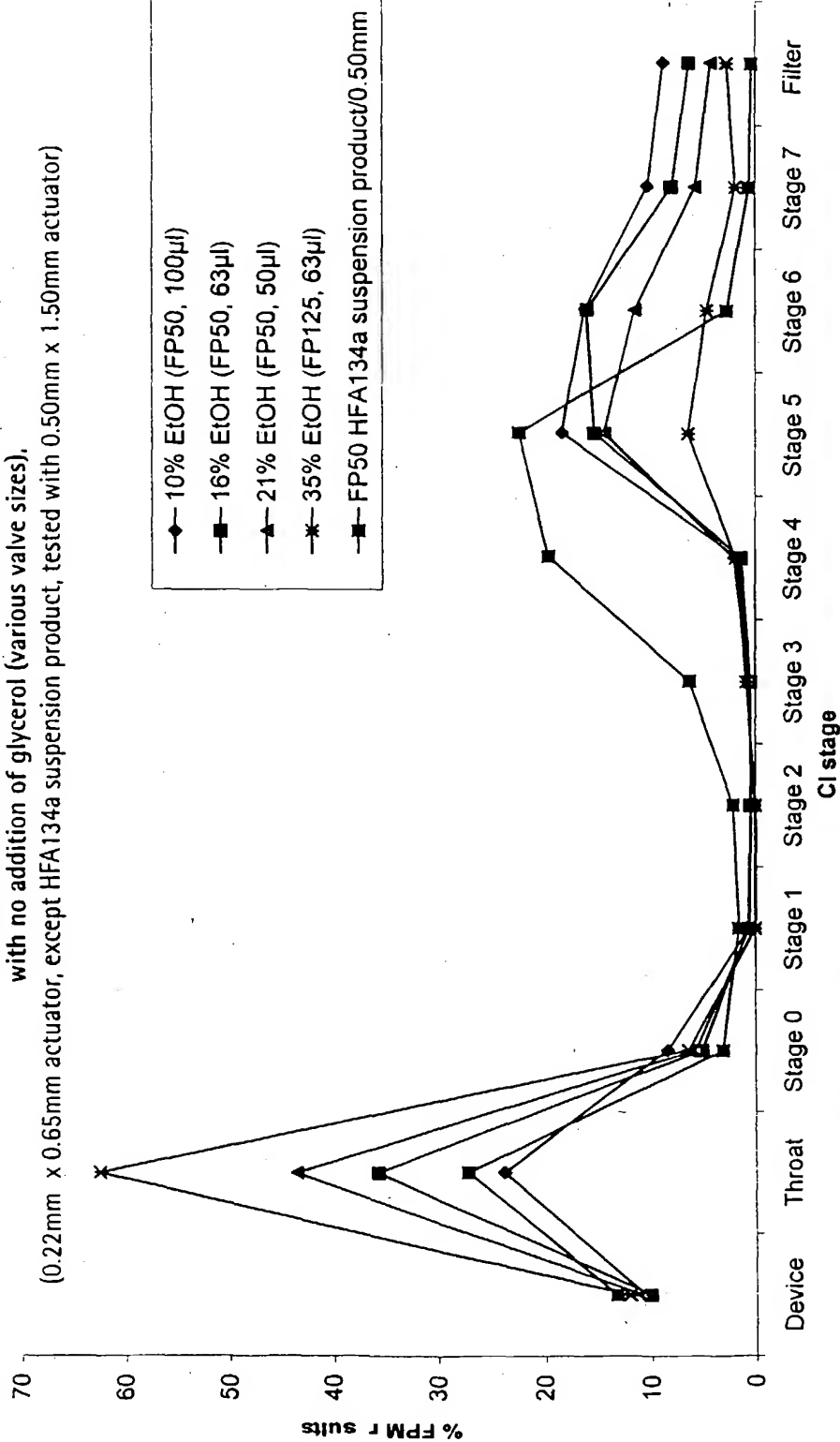


Figure 3

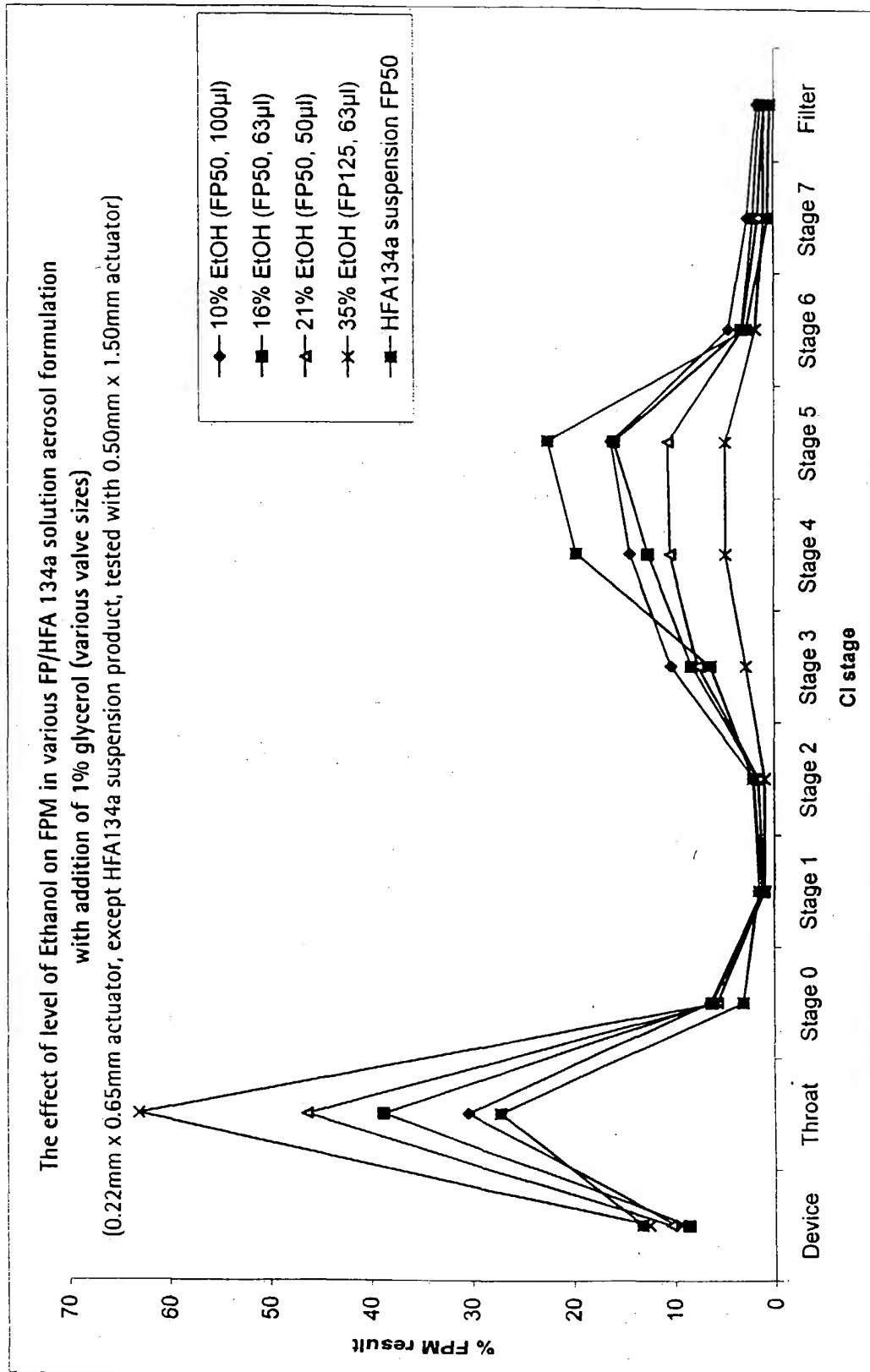


Figure 4

The effect of glycerol on FPM in FP/HFA134a 125µg solution aerosols containing 35% ethanol or 35% ethanol and 1% glycerol, 63µl valve (all tested with 0.22mm x 0.65mm actuator) - mean data

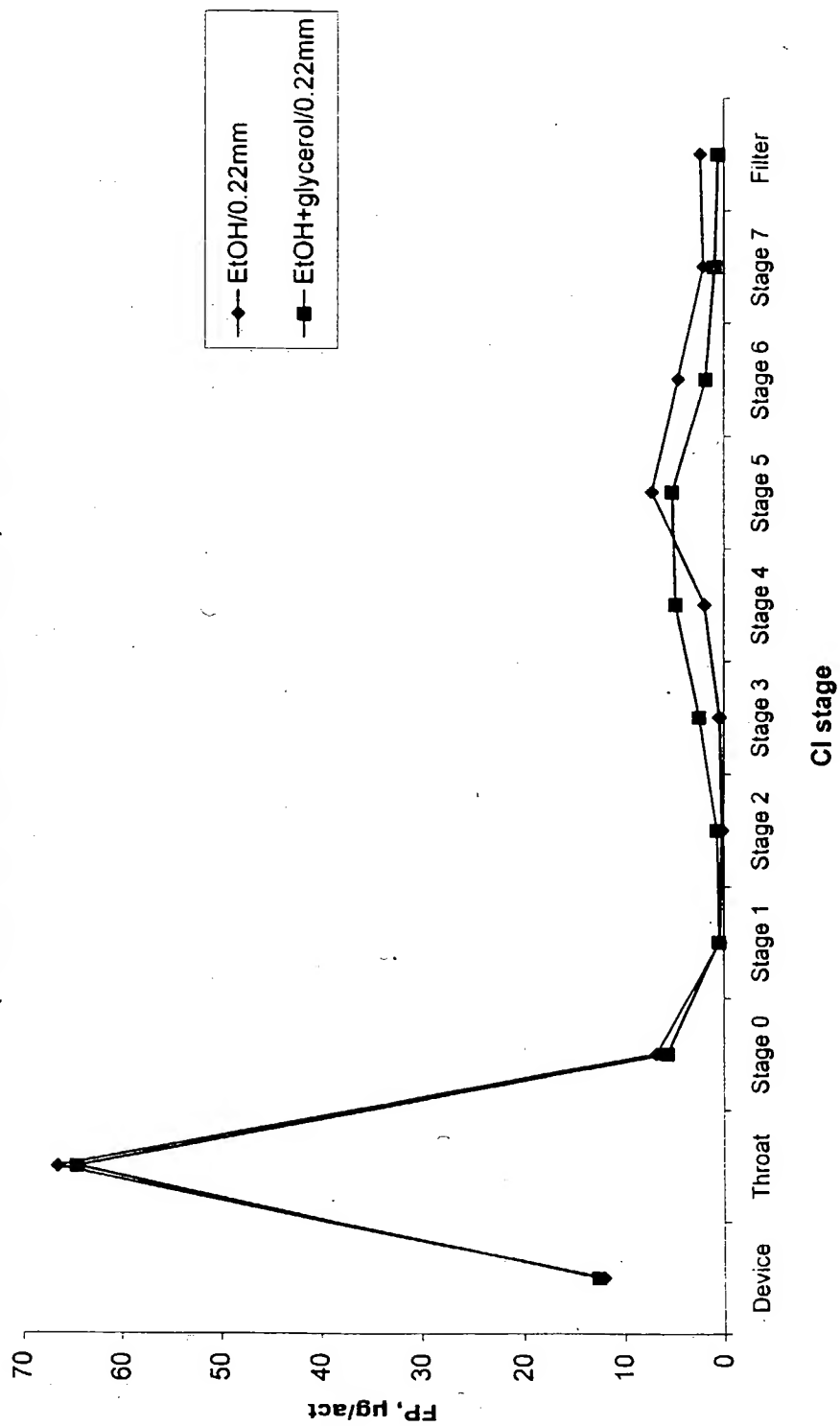


Figure 5

The effect of actuator dimensions on FPM and throat deposition in
 FP/HFA134a 50µg solution aerosols containing 16% ethanol, 63µl valve
 (0.50mm vs. 0.33mm vs. 0.22mm actuator)

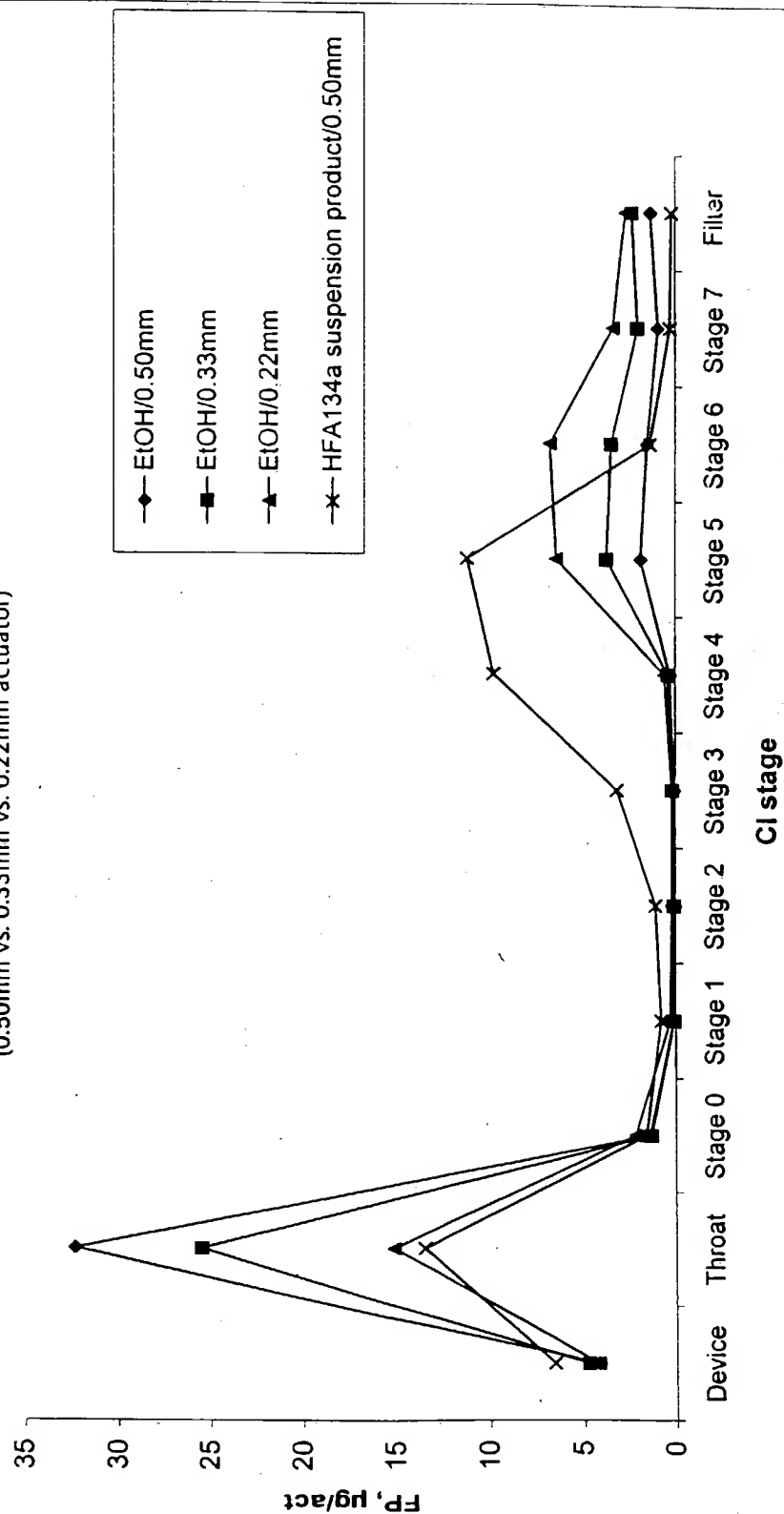


Figure 6

The effect of actuator dimensions on FPM and throat deposition in
FP/HFA134a 50µg solution aerosols containing 16% ethanol and 1% glycerol, 63µl valve
(0.33mm vs. 0.22mm actuator)

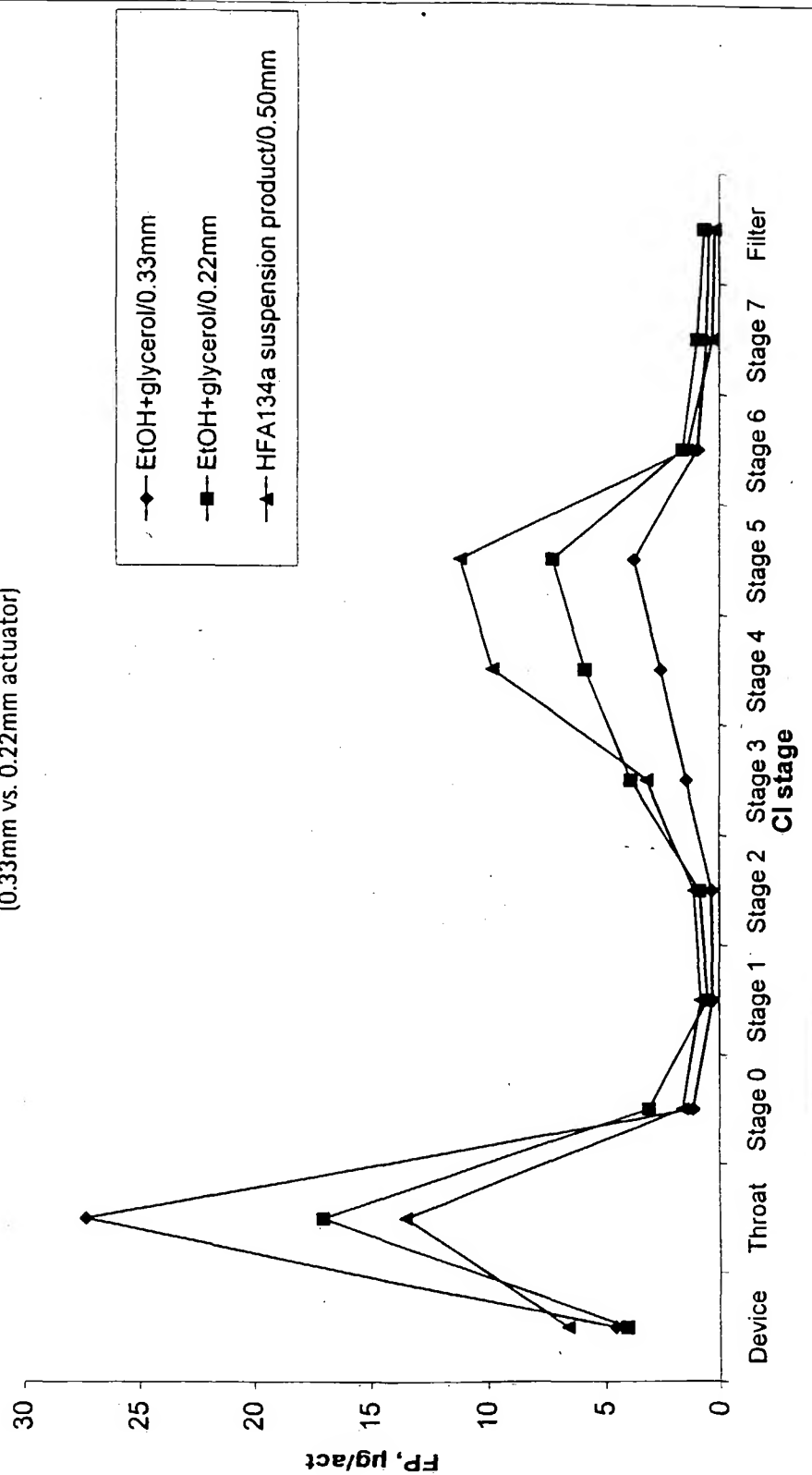


Figure 7

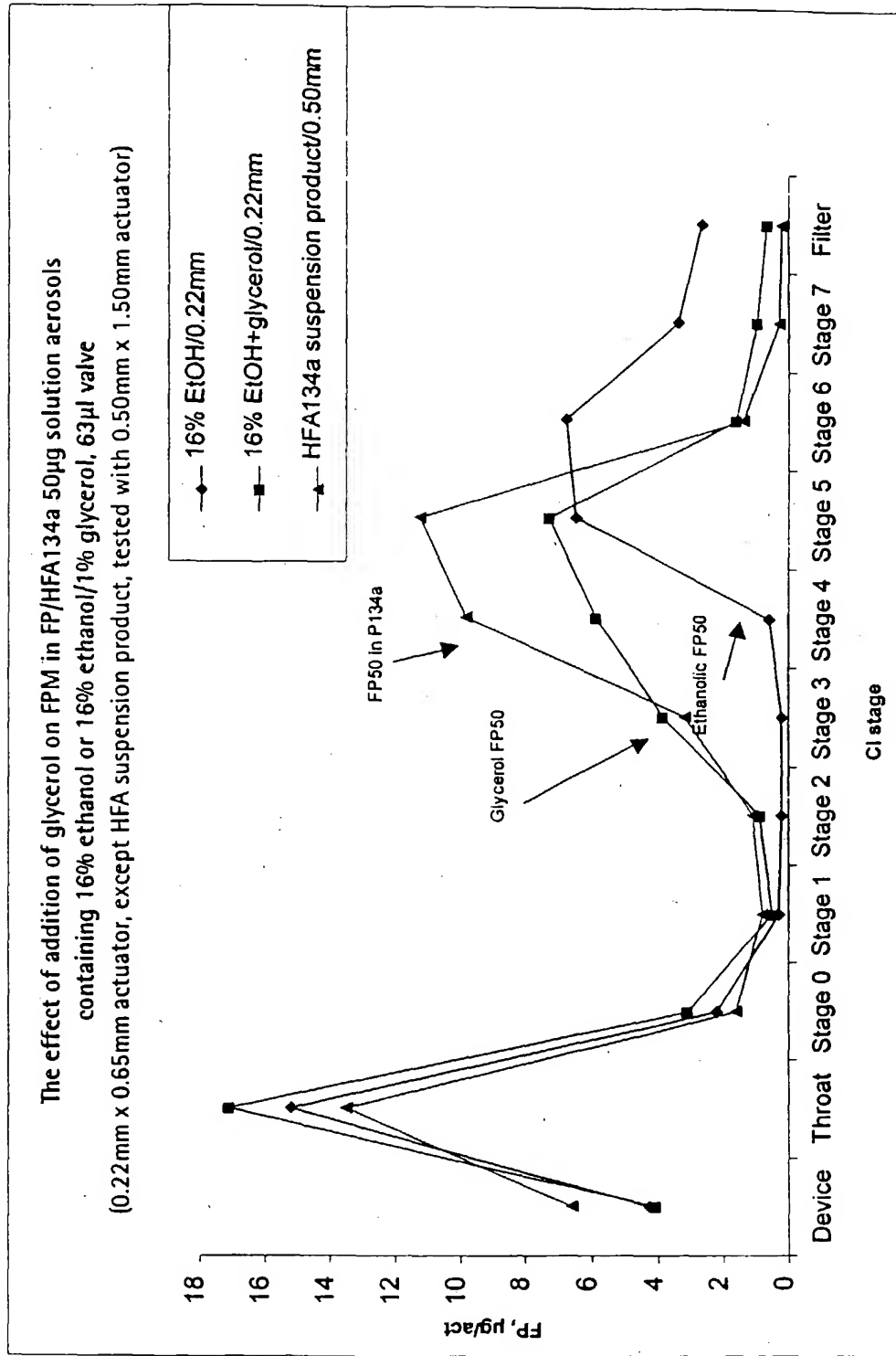
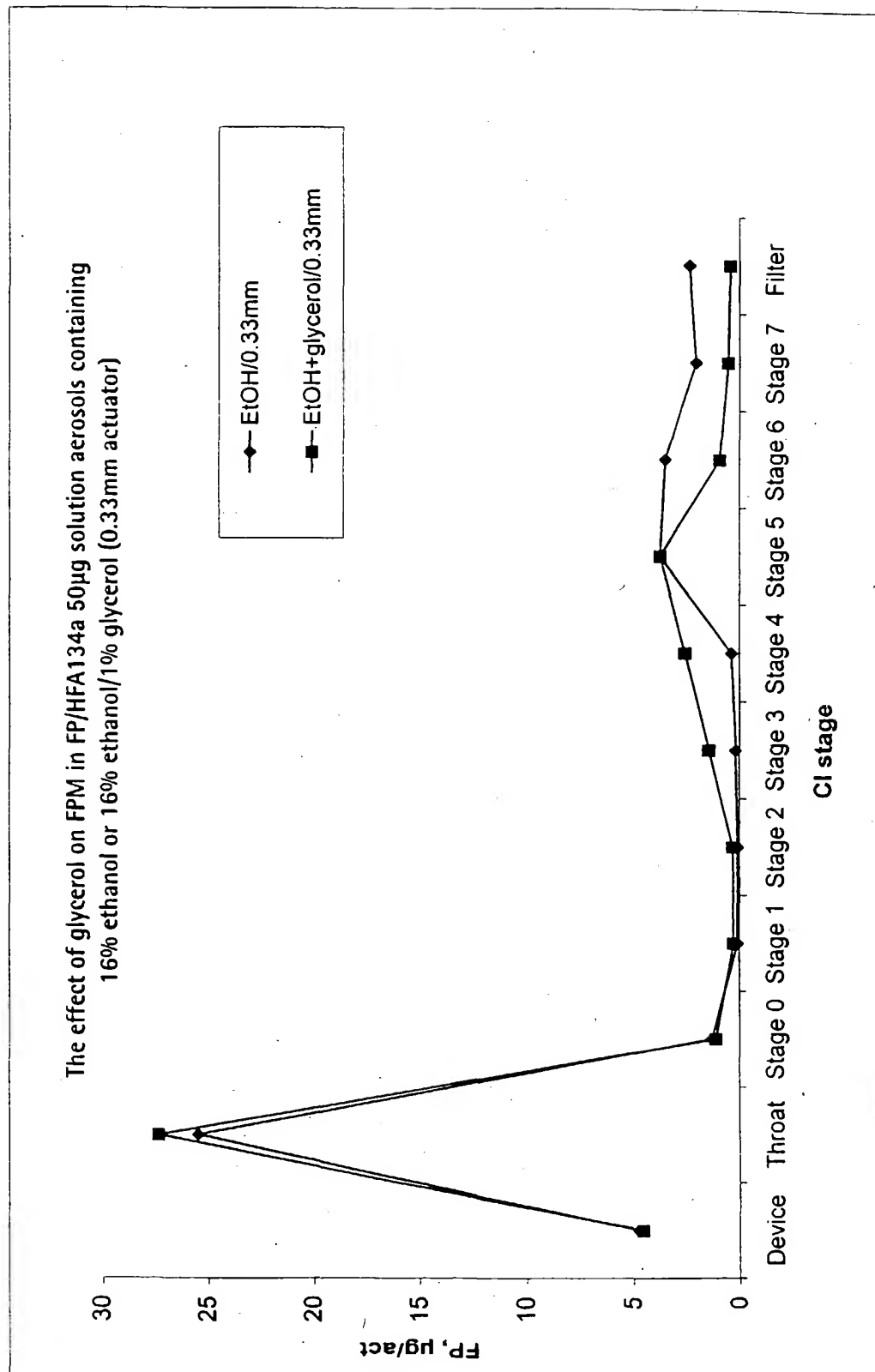


Figure 8



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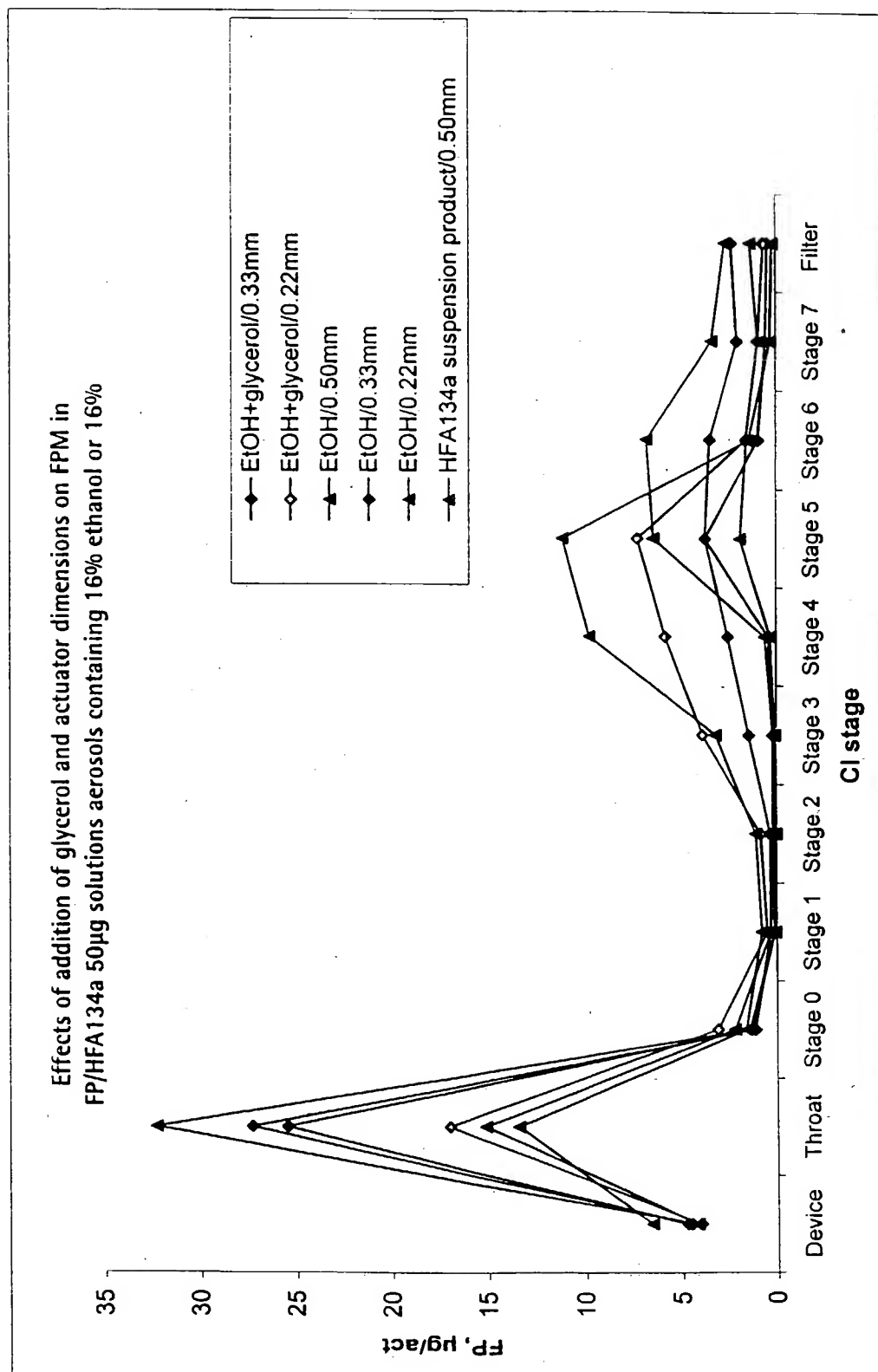


Figure 10

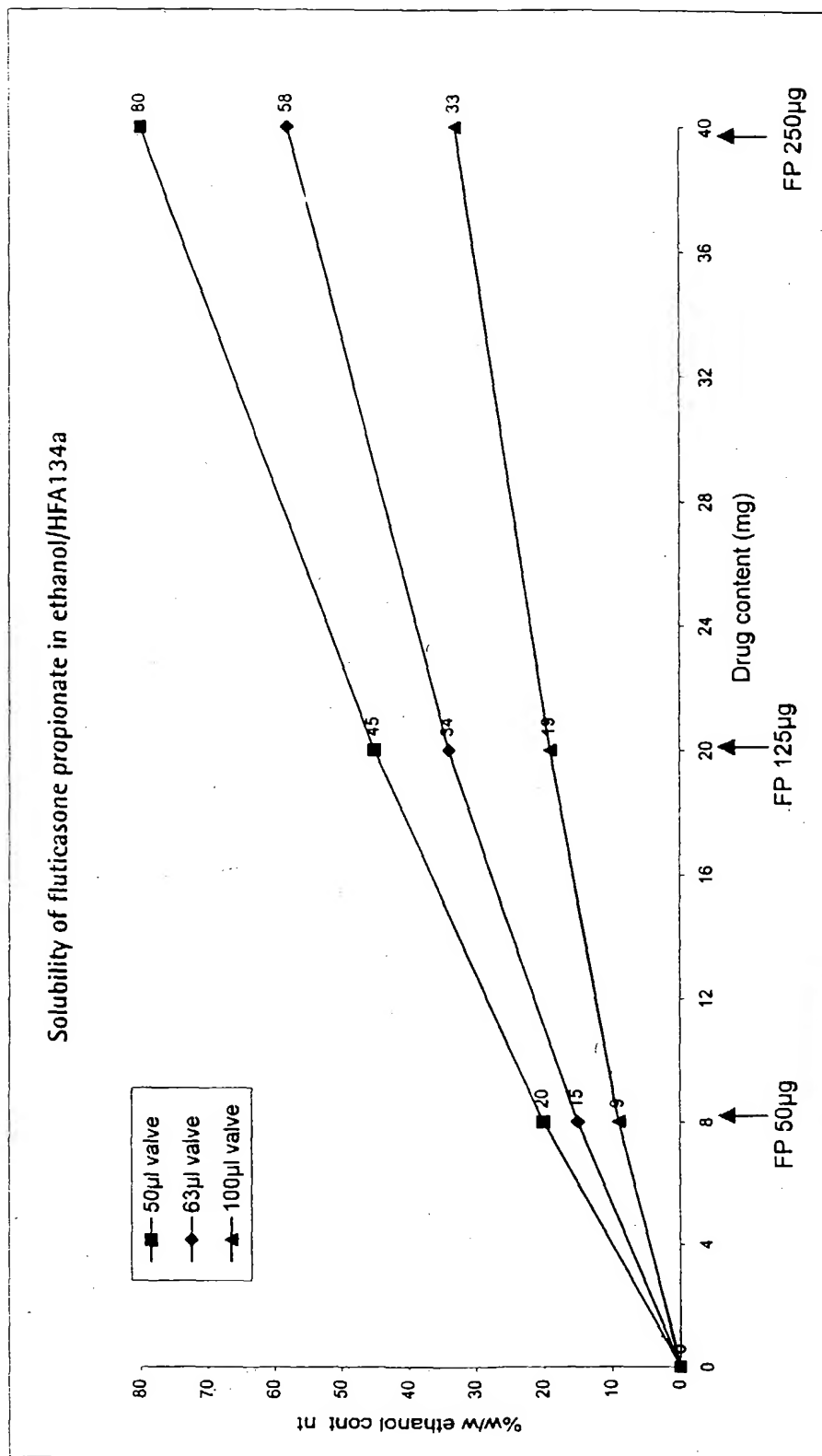


Figure 11

The effect of adding glycerol on FPM in FP/HFA134a 50µg solution aerosols
containing 10% ethanol or 10% ethanol/1% glycerol, 100µl valve
(0.22mm x 0.65mm actuator, except HFA suspension product, tested with 0.50mm x 1.50mm actuator)

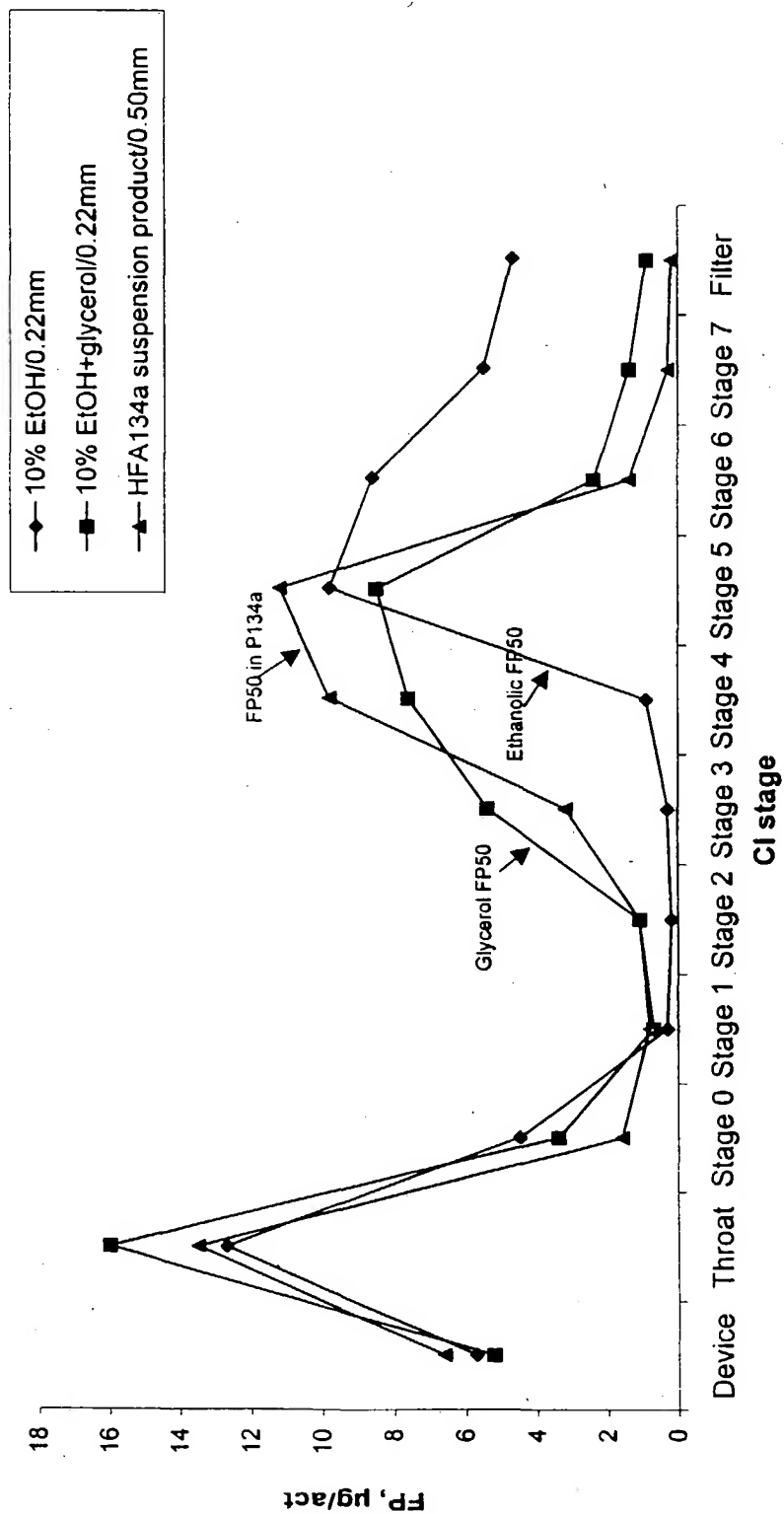


Figure 12

Effect of glycerol on MMAD of FP50 μ g solutions in HFA 134a-ethanol
(100 μ l valve, 0.22mm x 0.65mm actuator)

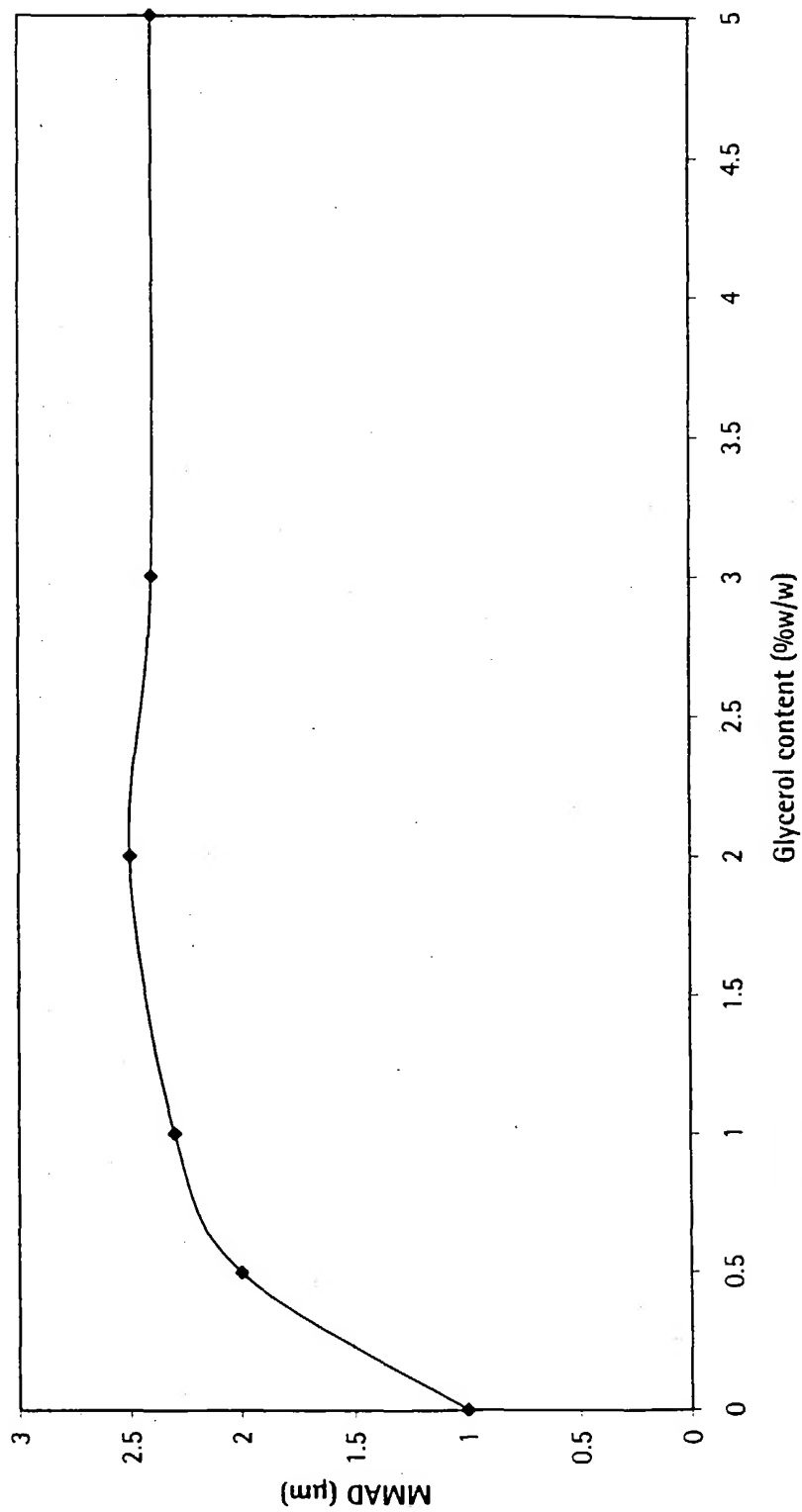


Figure 13

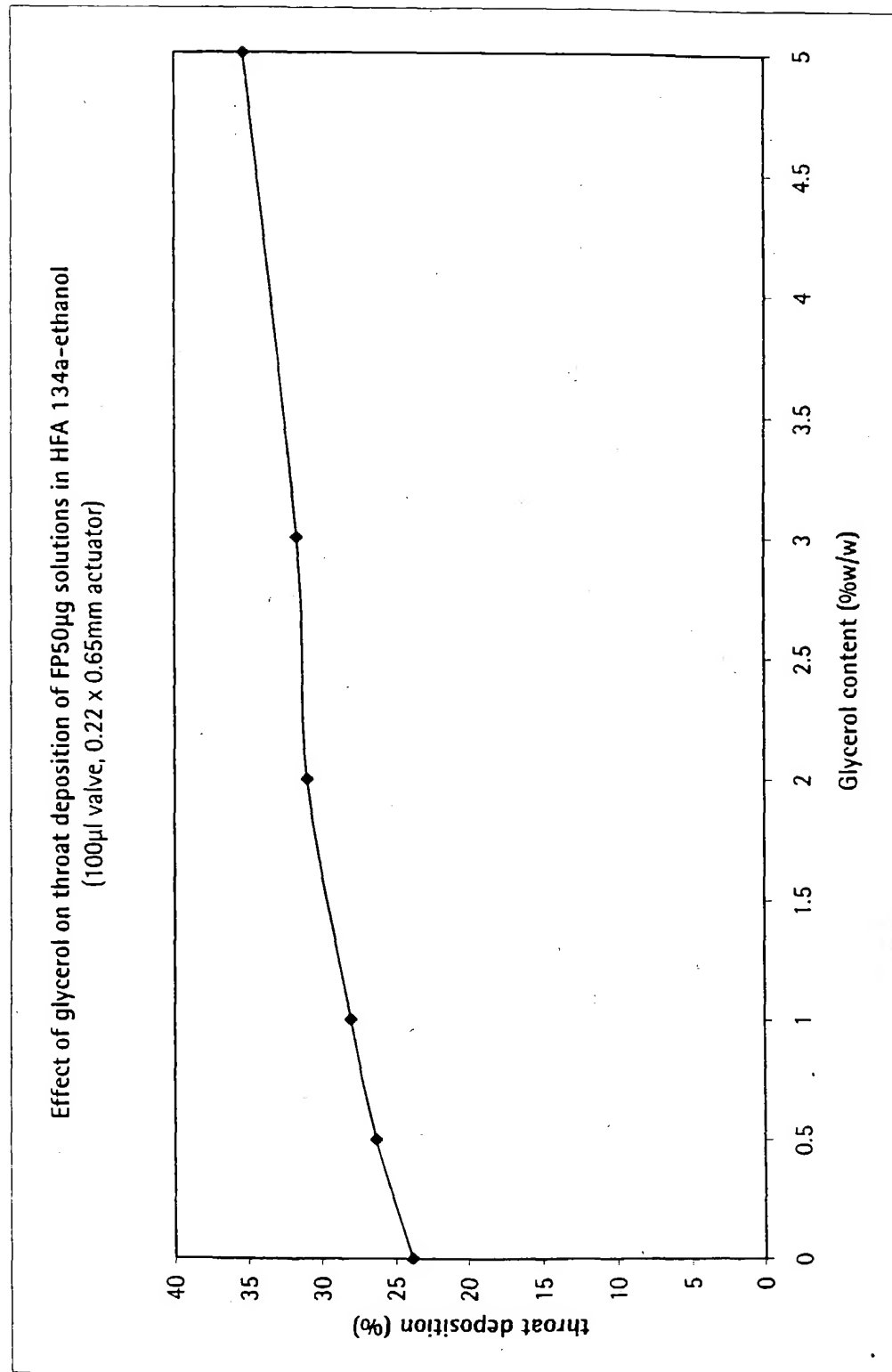
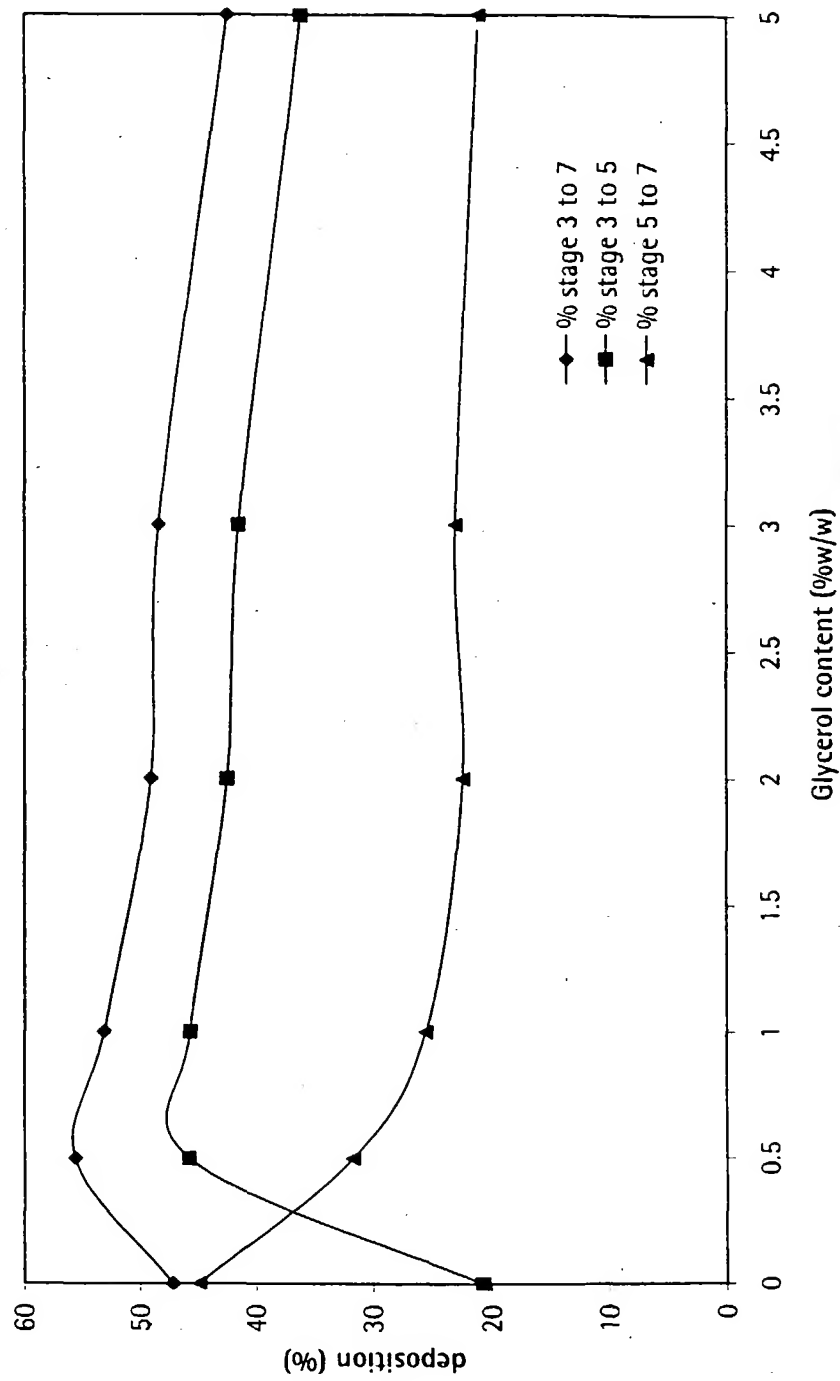


Figure 14

Effect of glycerol on stage 3-7 deposition for FP 50 μ g solutions in HFA 134a-ethanol
(100 μ l valve, 0.22 x 0.65mm actuator)



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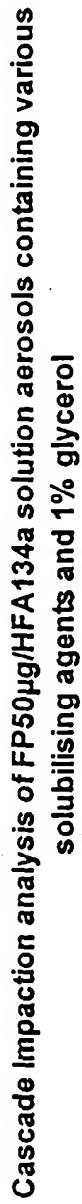


Figure 16

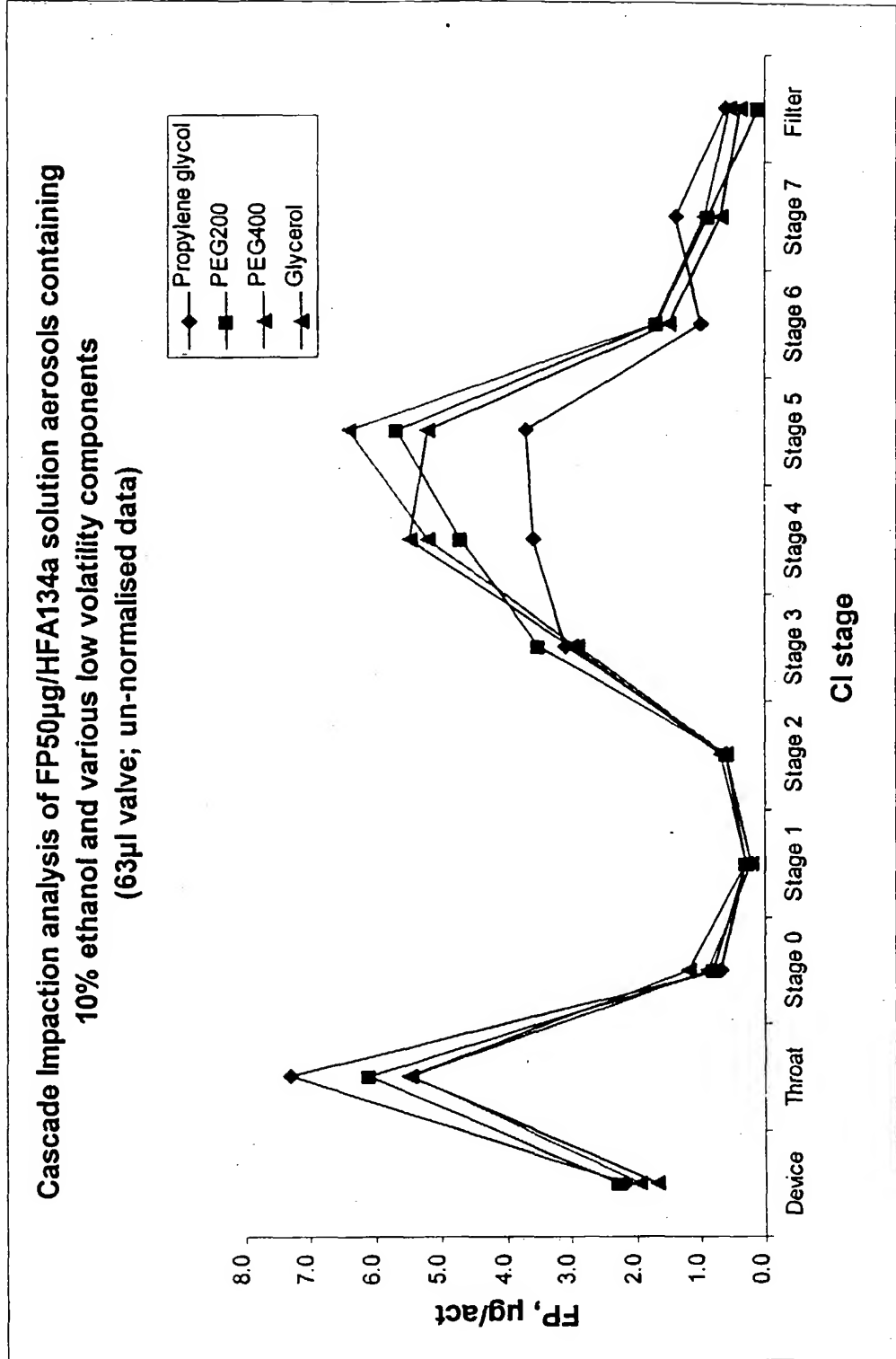


Figure 17

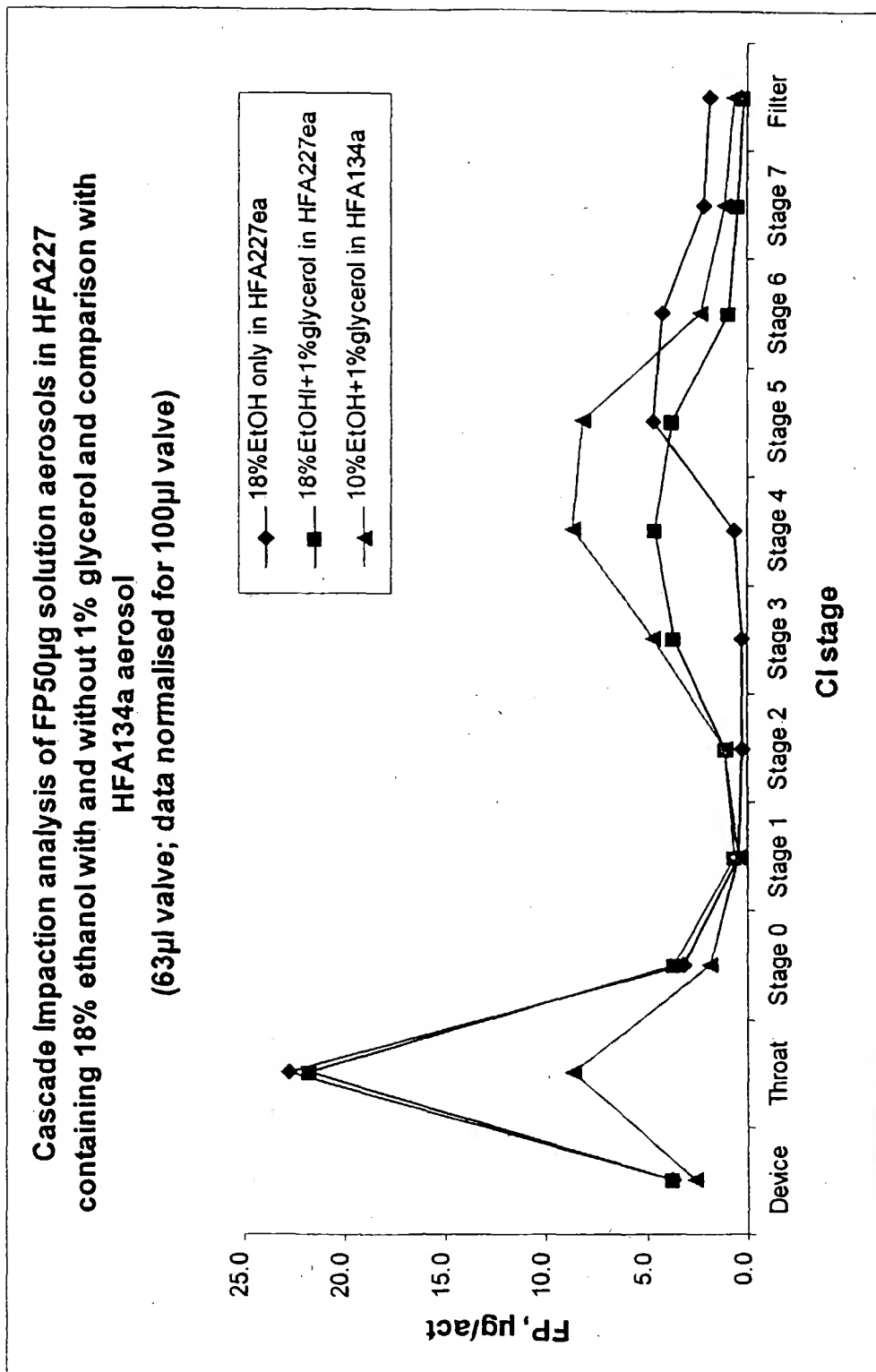


Figure 18

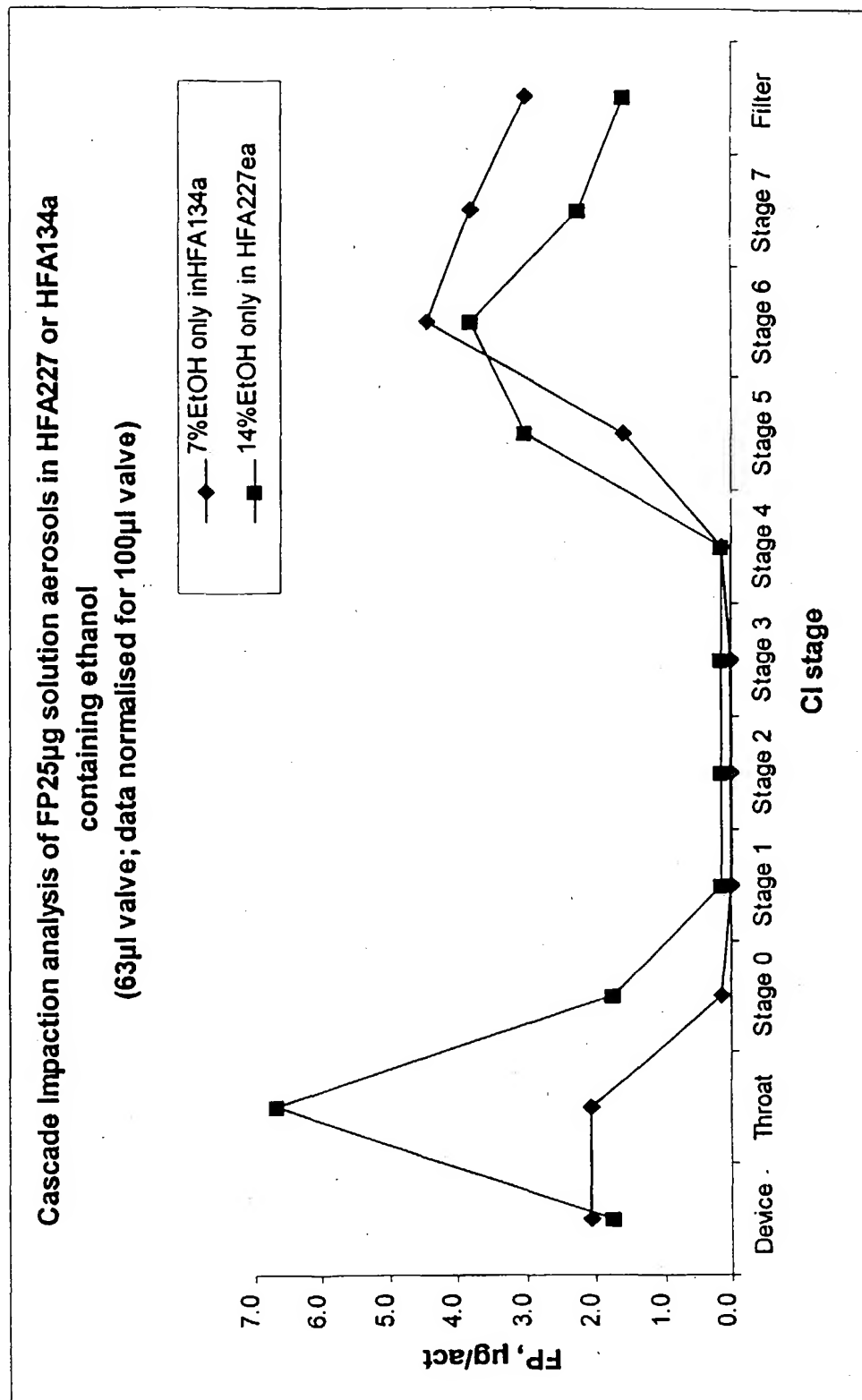


Figure 19

